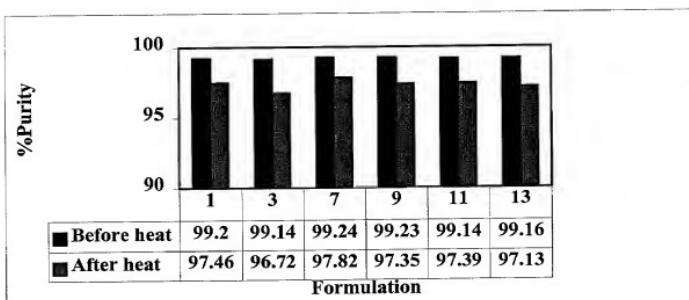


Title: GLP-2 FORMULATIONS  
Inventor(s): Indu J. Isaacs  
Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

Figure 1. Amino acids screening in buffers using heat stress.



Formulation

1. 10 mM Phosphate, 10 mM Glu
3. 10 mM Phosphate, 10 mM Citrate
7. 10 mM Phosphate, 10 mM Ser
9. 10 mM Phosphate, 10 mM Pro
11. 10 mM Phosphate, 10 mM His
13. 10 mM Phosphate, 10 mM Gly

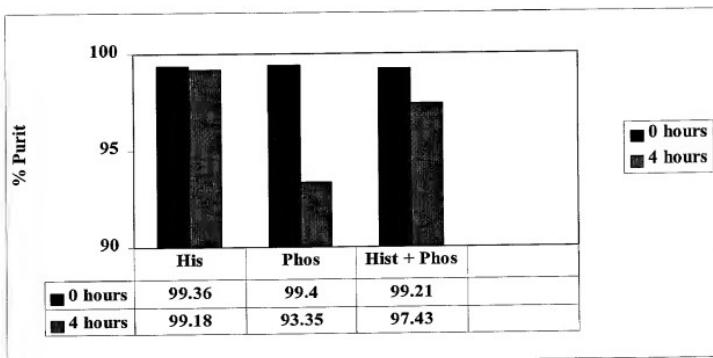
## Title: GLP-2 FORMULATIONS

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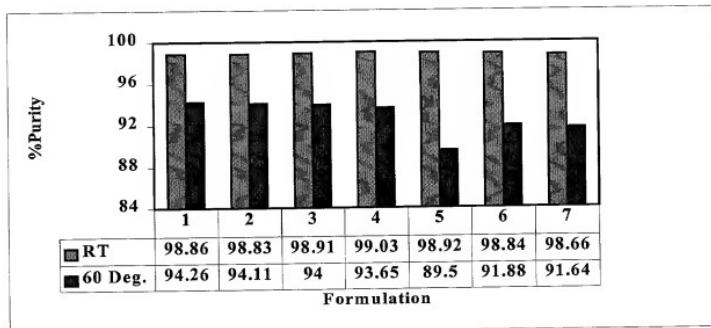
**Figure 2.** Screening of buffers using heat stress.



Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs  
Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

**Figure 3. Screening of Bulking agents analyzed by RP-HPLC.**



**Formulation**

1. 25 mM Histidine, 35 mM phosphate, 3% Mannitol
2. 50 mM Histidine, 35 mM phosphate, 3% Mannitol
3. 75 mM Histidine, 35 mM phosphate, 3% Mannitol
4. 25 mM Histidine, 25 mM phosphate, 3% sucrose
5. 25 mM Histidine, 25 mM phosphate, 3% trehalose
6. 25 mM Histidine, 25 mM phosphate, 3% maltose
7. 25 mM Histidine, 25 mM phosphate, 3% lactose

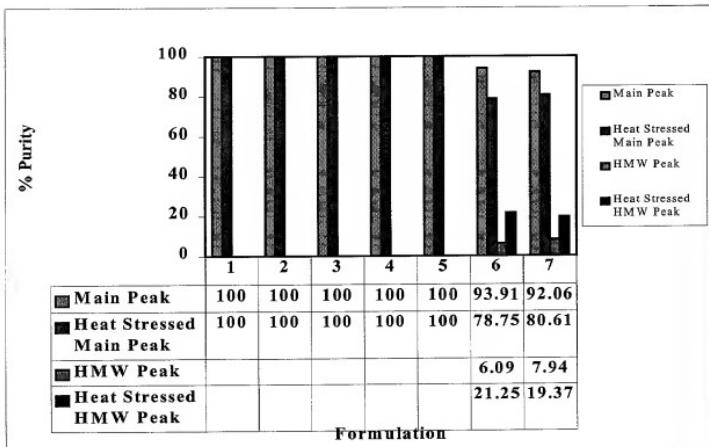
## Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Inventor(s): Indra J. KUMAR

Appl. No.: Not yet assigned  
Atty. Docket No. 016777/0454

Figure 4. Bulking agents analyzed by SE-HPLC.



### **Formulation**

1. 25 mM Histidine, 35 mM phosphate, 3% Mannitol
  2. 50 mM Histidine, 35 mM phosphate, 3% Mannitol
  3. 75 mM Histidine, 35 mM phosphate, 3% Mannitol
  4. 25 mM Histidine, 25 mM phosphate, 3% sucrose
  5. 25 mM Histidine, 25 mM phosphate, 3% trehalose
  6. 25 mM Histidine, 25 mM phosphate, 3% maltose
  7. 25 mM Histidine, 25 mM phosphate, 3% lactose

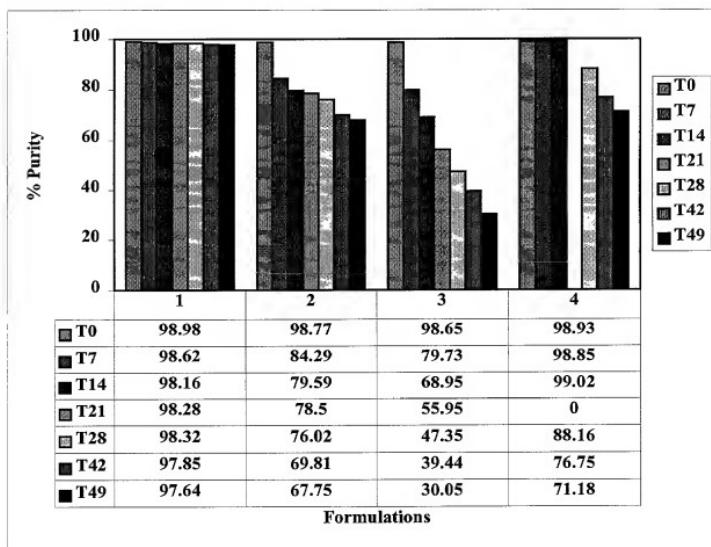
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

**Figure 5. Stability of liquid formulations stored at 4 °C.**



**Formulations**

1. 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
2. 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
3. 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
4. 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4

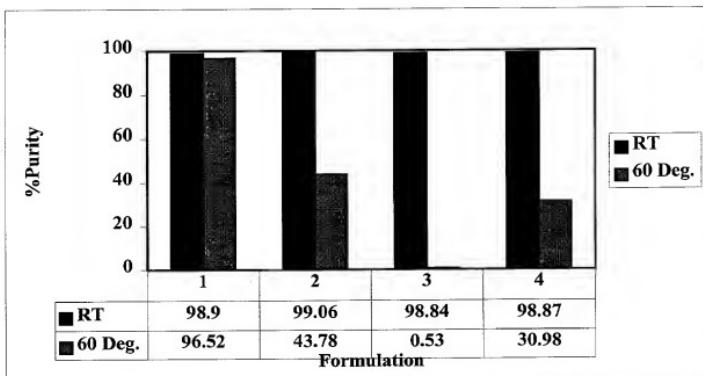
Title: GLP-2 FORMULATIONS

Inventor(s): Indu J. Isaacs

Appl. No.: Not yet assigned

Atty. Docket No. 016777/0454

**Figure 6. Heat stressed samples.**



**Formulations**

1. 35 mM Phosphate, 50 mM Histidine, 3% Mannitol, pH 7.4
2. 35 mM Phosphate, 50 mM Histidine, 5% Sucrose, pH 7.4
3. 35 mM Phosphate, 25 mM Lysine, 3% Mannitol, pH 7.4
4. 35 mM Phosphate, 25 mM Lysine, 5% Mannitol, pH 7.4